

WHAT IS CLAIMED IS:

1. A saw blade comprising:

a disc-shaped shank having an insertion hole formed
5 at the center thereof so that a rotating shaft of an
powered tool is inserted through the insertion hole of the
shank, and wave-shaped portions formed over a prescribed
portion of the radius of the disc-shaped shank, the wave-
shaped portions being spaced a prescribed distance from
10 each other and alternately arranged on the front and rear
surfaces of the disc-shaped shank, the prescribed portion
of the radius of the disc-shaped shank being at a distance
from the center of the insertion hole; and

a plurality of cutting tips attached to the outer
15 circumference of the shank for cutting a workpiece, the
cutting tips containing particles of high hardness.

2. The blade as set forth in claim 1, wherein the
prescribed portion of the radius of the disc-shaped shank
20 is more than the radius of the insertion hole and less than
the radius of the outer peripheral part of the saw blade
formed by attaching the cutting tips to the shank.

3. The blade as set forth in claim 1, wherein the
25 height of each of the prominences of the wave-shaped

portions of the shank is less than the height of the front or rear prominence of each of the cutting tips.

4. The blade as set forth in claim 1, wherein the
5 wave-shaped portions of the shank comprise a plurality of rings formed on the shank so that the rings are alternately arranged on the front and rear surfaces of the disc-shaped shank.

10 5. The blade as set forth in claim 1, wherein the wave-shaped portions of the shank are formed in a helical fashion.